



217/712-5670

Birmingham Bolt Company, Inc., Illinois Steel Division  
Birmingham Bolt Company, Inc., Illinois Steel Division  
NPDES Permit No. IL0005267  
Modification of NPDES Permit (Without Public Notice)

JAN 17 1986

Birmingham Bolt Company, Inc.  
Illinois Steel Division  
Post Office Box 623  
Kirkuk, Illinois 60301

Considered:

The Illinois Environmental Protection Agency has examined the request for modification of the above-referenced NPDES Permit as stated in your letter of November 10, 1985. Our final determination is to modify the Permit as follows:

Permittee name change from Illinois Birmingham Bolt Company, Inc. to Birmingham Bolt Company, Inc., Illinois Steel Division.

Enclosed is a copy of the modified Permit. Because the changes made in the Permit were minor, no formal Public Notice of the modification will be issued.

Should you have questions or comments, please contact Ed Kane of my staff.

Very truly yours,

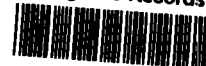
Thomas G. McSwiggan, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

TCM:EK:06/356,42

cc: USEPA/With Enclosure  
Region 5/With Enclosure  
Permit Section  
Records Unit  
Consulting Engineer

Enclosure

EPA Region 5 Records Ctr.



303118

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (EPFES) Permit

Expiration Date: December 1, 1978

Issue Date: January 2, 1984

Effective Date: February 2, 1984

Modification Issue Date: January 17, 1986

Modification Effective Date: Feb. 18, 1986

Name and Address of Permittee:

Facility Name and Address:

Birmingham Bolt Company, Inc.  
Illinois Steel Division  
Post Office Box 628  
Mankakee, Illinois 60901

Birmingham Bolt Company, Inc.  
Illinois Steel Division  
Post Office Box 28  
Mankakee Electric Steel Works Road  
Mankakee, Illinois 60901  
Mankakee County

Discharge Number and Name:

Receiving Waters

001 Effluent separator  
overflow of contaminated  
stormwater runoff

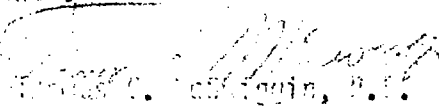
Soldiers Creek

002 Overflow of process cooling  
water from Pond #3 of the  
recycle system

Soldiers Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the CWA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

  
Thomas C. McLaughlin, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

EPAES Permit No. IL0009297

Special Conditions

1. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

2. Effluent 001: For the purpose of this permit, this discharge is limited to storm water, free from process and other wastewater discharges.

3. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 2, Subtitle C, as amended:

A. Maximum temperature rise above natural temperature must not exceed 4°F (2.2°C).

B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 4°F (2.2°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures on the main flow of the river.)

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
47	41	40	60	50	30	20	10	30	40	60	60	60
50	45	40	60	50	32	22	12	32	42	62	62	62

4. Effluent 002 -- Toxic Pollutant Monitoring: The permittee shall monitor and report concentrations (in mg/l) of the following listed pollutants at three month intervals. The sample shall be a 24-hour (or duration of discharge event, whichever is the lesser) effluent composite except as otherwise specifically provided below. The results from each sampling event shall be submitted along with the monthly Discharge Monitoring Report Forms to the IEPA. The following pollutants shall be specifically analyzed for:

10/15 Fractions -- Acid Compounds

Highly Toxic Organic Compounds

Basic/Neutral Organic Compounds

UPDES Permit No. IL0040217

## Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS Tons/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	1 DAY MAX.	30 DAY AVG.	1 DAY MAX.		
1. From the effective date of this permit until December 1, 1988, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:						
Outfall(s): 001						
Flow					When discharge occurs	Continuous
					Measure when monitoring	
Uncombined Solids			15	20	Monthly	Grab
Oil and Grease			15	20	Monthly	Grab
Outfall(s): 002						
Flow					When discharge occurs	Continuous
					Measure when monitoring	
Uncombined Solids			15	20	Monthly	Grab
Oil and Grease			15	20	Monthly	Grab
pH	Shall be in the range of 6 to 9				Monthly	Grab
Temperature	See Special Condition 10.1				Monthly	Grab

DPDES Permit No. IL0001297

Special Conditions

Heavy Metals -- Antimony  
 Arsenic  
 Beryllium  
 Cadmium  
 Chromium, hexavalent  
 Chromium, total  
 Copper  
 Lead  
 Mercury  
 Nickel  
 Selenium  
 Silver  
 Thallium  
 Zinc  
 Cyanide  
 Ammonia (as N)  
 BOD<sub>5</sub>

The basis samples for volatile organics shall consist of a series (minimum of eight) of grab samples collected over a 24-hour period (or duration of discharge event whichever is the lesser) and preserved and confined in the laboratory immediately before analysis.

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

Analytical test methods promulgated by 40 CFR Part 136 shall be used; however, if no test method has been promulgated for a particular pollutant, the permittee may use any suitable method providing a description of the method or a reference to a published method is submitted. Wastewater samples for organic pollutants shall be prepared and analyzed by GC-MS in accordance with EPA proposed methods 824 and 826 (July, 1982).

At the discretion of the Illinois Environmental Protection Agency, the monitoring and reporting of the priority pollutants listed above may be discontinued, providing that the following conditions have been met:

- A. The pollutants have been monitored for three separate discharge events.

WALLS Permit No. IL0000207

Special conditions

2. Monitoring of the parameters indicates a consistent average, with little deviation at a point below the level which can be achieved by the technology-based treatment requirements appropriate to the permittee under 40 CFR 125.3(c) of the Federal Regulations.

Accordingly, the permittee shall notify this Agency as to the source of these pollutants in its effluent. In the event that the sampling indicates that these pollutants are discharged at a level greater than the level which can be achieved by the technology-based treatment requirements appropriate to the permittee under 125.3(c); this permit shall be promptly modified to include a compliance schedule and effluent limitations on these parameters.

3. The permittee shall receive monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The complete Discharge Monitoring Report form shall be submitted monthly to EPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Compliance Assurance Section  
2200 Churchill Ave.  
Springfield, Illinois 62760

# ATTACHMENT H

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## Standard Conditions

### Definitions

**Act** means the Illinois Environmental Protection Act, Ch. 111 1/2 Ill. Rev. Stat., Sec. 1001-1051 as Amended.

**Agency** means the Illinois Environmental Protection Agency

**Board** means the Illinois Pollution Control Board

**Clean Water Act** (formerly referred to as the Federal Water Pollution Control Act) means Pub. L. 92-500, as amended, 33 U.S.C. 1251 et seq.

**NPD&S** (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

**USEPA** means the United States Environmental Protection Agency

**Daily Discharge** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

**Maximum Daily Discharge Limitation** (daily maximum) means the highest allowable daily discharge.

**Average Monthly Discharge Limitation** (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

**Average Weekly Discharge Limitation** (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

**Best Management Practices** (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**Aliquot** means a sample of specified volume used to make up a total composite sample.

**Grab Sample** means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

**24 Hour Composite Sample** means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

**8 Hour Composite Sample** means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

**Flow Proportional Composite Sample** means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency, upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records.**

- (a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- (b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. This period may be extended by request of the Agency at any time.
- (c) Records of monitoring information shall include:
  - (1) The date, exact place, and time of sampling or measurements;
  - (2) The individual(s) who performed the sampling or measurements;
  - (3) The date(s) analyses were performed;
  - (4) The individual(s) who performed the analyses;
  - (5) The analytical techniques or methods used; and
  - (6) The results of such analyses.
- (d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method "or approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.

(a) **Application.** All permit applications shall be signed as follows:

- (1) **For a corporation,** by a principal executive officer of at least the level of vice president;
- (2) **For a partnership or sole proprietorship** by a general partner or the proprietor, respectively; or
- (3) **For a municipality, State, Federal, or other public agency,** by either a principal executive officer or ranking elected official.

(b) **Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- (1) The authorization is made in writing by a person described in paragraph (a), and
- (2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility, and
- (3) The written authorization is submitted to the Agency.

- 7
- (c) **Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
- 12) **Reporting requirements.**
- (a) **Planned Changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility.
- (b) **Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- (d) **Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.
- (1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
- (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
- (e) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:
- (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
- (2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to be reported within 24 hours.
- The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- (f) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12)(c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(e).
- (g) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.
- 13) **Transfer of permits.** A permit may be automatically transferred to a new permittee if:
- (a) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date,
- (b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees; and
- (c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.
- 14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
- (1) One hundred micrograms per liter (100 ug/l).
- (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
- (3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
- (4) The level established by the Agency in this permit.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- (15) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
- (a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
- (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- (c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
- (1) User charges pursuant to Section 204(b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
- (2) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act, and
- (3) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act;
- (17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.
- (18) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
- (19) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.
- (20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307 or 308 of the Clean Water Act is subject to a fine of not less than \$2,500, nor more than \$25,000 per day of violation, or by imprisonment for not more than one year or both.
- (21) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (22) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit shall, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (23) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- (24) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
- (25) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board.
- (26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.



SAMPLE COLLECTED BY

LOCATION OF SAMPLING POINT

BASIN

SUB-BASIN (IF NONE ENTER "DIRECT")

TRIBUTARY

MINOR TRIBUTARY

SEND ORIGINAL  
OF RESULTS TO:SUB-BASIN  
OFFICE☐ PERFORMANCE MEASUREMENT  
SECTION, SPRINGFIELDSEND COPY OF EOP SERVICES  
RESULTS TO: ☐ SECTION, SPRINGFIELD

CARD COL.

CARD NO. 1

CARD COL.

1

CARD NO. 2

CARD COL.

2

CARD NO. 3

2-5

FI

BASIN CODE

6-7

02

PLANT OR STATION NO.

8-10

091

FIPS. COUNTY CODE  
(USE ONLY FOR PLANTS)

11-17

C003275

LAB  
ID NO.

11-17

C003275

LAB  
ID NO.

11-17

C003275

LAB  
ID NO.

18

E

SAMPLE TYPE CODE  
(SEE LIST BELOW)

18

E

SAMPLE TYPE CODE

18

E

SAMPLE TYPE CODE

19-20

83

YEAR

21-22

02

MONTH

23-24

09

DAY

25-26

10

HOUR (NEAREST)

27

A

TIME OF DAY (A.P.M.)

28-30

WATER TEMPERATURE  
(DEG. F.)

31-33

FIELD D.O.

PHOSPHORUS

TOTAL  
PHOSPHORUSAVG.  
BOD.

C.O.D.

PHENOLS

AMMONIA N

NITRATE +  
NITRITE AS N

ORGANIC N

TOTAL N

T.O.S./E.C.

TOTAL SUSP.  
SOLIDS

SAMPLE TYPE CODES:

- A = DOMESTIC WASTE ONLY  
 I = INDUSTRIAL WASTE ONLY  
 M = MIXED DOMESTIC & INDUSTRIAL WASTE  
 S = STREAM, LAKE, OR RECEIVING WATER QUALITY  
 T = MINE DRAINAGE OR WASTE  
 X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY

RECEIVED BY

TIME

TRANSPORTED BY

RECEIVED BY

TIME

ALL RESULTS EXPRESSED AS MG/L EXCEPT  
WHERE OTHERWISE STATED.PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL  
SLUDGE, TURBIDITY, WEATHER), LOCATION OF SAMPLING POINT:

From OUTFALL to ditch

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY

DATE REC'D

TIME REC'D

DATE ANALYSIS COMPLETED

DATE RESULTS FORWARDED

TOTAL TESTS REQUIRED

YES/NO RUN

LAB SECTION

SUPERVISOR

11 332 0006

ENVIRONMENTAL PROTECTION AGENCY

WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

2 Corrected 10-7-85  
C05916 JUN 13 85  
DIVISION OF WATER POLLUTION CONTROL

SAMPLE COLLECTED BY <u>C Kallis</u>		LOCATION OF SAMPLING POINT <u>Illinois Birmingham &amp; Bolt</u> 002	
BASIN <u>Kankakee Solder CR</u>	SUB-BASIN (IF NONE ENTER "DIRECT")	TRIBUTARY	MINOR TRIBUTARY
SEND ORIGINAL OF RESULTS TO: <u>Maywood</u>		SUB-BASIN OFFICE	PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD
SEND COPY OF EOP SERVICES RESULTS TO: <input type="checkbox"/> SECTION, SPRINGFIELD			
CARD COL. 1 CARD NO. 1 2-5 <u>FI</u> BASIN CODE	CARD COL. 2 CARD NO. 2 8-7 <u>01</u> PLANT OR STATION NO.	CARD COL. 3 CARD NO. 3 8-10 <u>091</u> FIPS COUNTY CODE (USE ONLY FOR PLANTS)	
11-17 <u>C505916</u> ID NO.	11-17 <u>C505916</u> LAB ID NO.	11-17 <u>C505916</u> LAB ID NO.	
18 <u>E</u> SAMPLE TYPE CODE (SEE LIST BELOW)	18 <u>E</u> SAMPLE TYPE CODE	18 <u>E</u> SAMPLE TYPE CODE	
19-20 <u>95</u> YEAR	19-20 <u>0.002</u> ARSENIC	19-20 <u>0.002</u> PLANKTON (NO./ML)	
21-22 <u>06</u> MONTH	21-22 <u>0.0</u> BARIUM	21-22 <u>0.0</u> FLUORIDE	
23-24 <u>12</u> DAY	23-24 <u>0.3</u> BORON	23-24 <u>0.3</u> CHLORIDE	
25-26 <u>01</u> HOUR (NEAREST)	25-26 <u>0.00</u> CADMIUM	25-26 <u>0.00</u> SULFATE AS SO <sub>4</sub>	
27 <u>P</u> TIME OF DAY (A.M./P.M.)	27 <u>0.00</u> CHROMIUM (HEX)	27 <u>0.00</u> TOTAL SULFUR AS S	
28-30 <u>79</u> WATER TEMPERATURE (DEG. F.)	28-30 <u>0.00</u> CHROMIUM (THI)	28-30 <u>0.00</u> OIL	
31-33 <u>7.7</u> FIELD D.O.	31-33 <u>0.00</u> CHROMIUM (TOTAL)	31-33 <u>0.00</u> M.B.A.S.	
PH (UNITS) <u>7.7</u>	34-36 <u>0.03</u> COPPER	34-36 <u>0.03</u> CARBON CHLOROPFORM EXTRACT	
TOTAL PHOSPHORUS <u>39.40</u>	37-39 <u>0.00</u> CYANIDE	37-39 <u>0.00</u> TURBIDITY (UNITS)	
A.V.G. BOD. <u>no data FS</u>	40-42 <u>0.5</u> IRON (TOTAL)	40-42 <u>0.5</u> RESIDUE ON EVAPORATION	
PHENOLS <u>no data FS</u>	43-45 <u>0.00</u> IRON (DISSOLVED)	43-45 <u>0.00</u> VOLATILE SUSP. SOLIDS	
ALUMINUM <u>no data FS</u>	46-48 <u>0.16</u> LEAD	46-48 <u>0.16</u> COLOR (UNITS)	
NITRATE + NITRITE AS N <u>64.66</u>	49-51 <u>0.00</u> MANGANESE	49-51 <u>0.00</u> HARDNESS	
ORGANIC N <u>67.69</u>	52-54 <u>0.00</u> MERCURY (MICROGM/L)	52-54 <u>0.00</u> ALKALINITY	
TOTAL N <u>70.72</u>	55-57 <u>0.00</u> NICKEL	55-57 <u>0.00</u> TOTAL ACIDITY	
T.D.S./E.C. <u>73.76</u>	58-60 <u>0.00</u> SELENIUM	58-60 <u>0.00</u> FREE ACIDITY	
TOTAL SUSP. SOLIDS <u>160</u>	61-63 <u>0.00</u> SILVER	61-63 <u>0.00</u> OTHER TESTS REQUIRED	
	64-66 <u>0.00</u> ZINC	64-66 <u>0.00</u> RESULTS	
SAMPLE TYPE CODES: A = DOMESTIC WASTE ONLY E = INDUSTRIAL WASTE ONLY I = MIXED DOMESTIC & INDUSTRIAL WASTE S = STREAM, LAKE, OR RECEIVING WATER QUALITY T = MINE DRAINAGE OR WASTE X = OTHER OR TYPE UNKNOWN		ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED. PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER, LOCATION OF SAMPLING POINT):	

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY C Kallis

RECEIVED BY \_\_\_\_\_ TIME \_\_\_\_\_

TRANSPORTED BY \_\_\_\_\_

RECEIVED BY \_\_\_\_\_ TIME \_\_\_\_\_

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY St. Spawns

DATE REC'D 6-17-85 TIME REC'D 7:45

DATE ANALYSIS COMPLETED \_\_\_\_\_

DATE RESULTS FORWARDED SEP. 10. 1985

TOTAL TESTS REQUESTED \_\_\_\_\_ TESTS RUN \_\_\_\_\_

LAB SECTION Chicago SUPERVISOR Daugherty

IL 532-0006

WPC 129a 6/80

## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C50591600 PRIORITY : DATE EXPECTED : 07/11/85  
PARAMETER GROUP : WP03C LABORATORY : C  
DATE RECEIVED: 850613 TIME RECEIVED : 0745 RECEIVED BY : FSP  
FUNDING CODE : WP06 AGENCY ROUTING : 00 UNIT CODE :  
SAMPLE TYPE CODE : WPC1 SAMPLE PURPOSE CODE : 0  
SITE # : REPORTING INDICATOR :  
SUBMITTING SOURCE # : SAMPLING PROGRAM :  
SAMPLING POINT DESC. : ILLINOIS BIRMINGHAM 002 & BOLT  
DATE COLLECTED : 850612 TIME COLLECTED : 1300  
COLLECTED BY : C KALLIS DELIVERED BY : CK

## COMMENTS :

NOT USED : NOT USED :

NOT USED : NOT USED :

## LAB OBSERVATIONS :

SUPERVISORS INITIALS : JWD

P00403 PH-LABORATORY	UNITS : 7.7
P00095 CONDUCTIVITY	UMHOS/CM : 525
P01022 BORON, TOTAL	UG/L : 300
P00720 CYANIDE, TOTAL	MG/L : 0.00
P00310 BOD 5DAY	MG/L : 9
P00530 SOLIDS, TOT. SUS.	MG/L : 160
P00535 SOLIDS, VOLATILE	MG/L : 47
P00556 OIL, GRAVIMETRIC	MG/L : 16
P01002 ARSENIC, TOTAL	UG/L : 2
P01007 BARIUM, TOTAL	UG/L : 100K
P01027 CADMIUM, TOTAL	UG/L : 10K
P01034 CHROMIUM, TOTAL	UG/L : 10K
P01032 CHROMIUM, HEX	UG/L : 10K
P01042 COPPER, TOTAL	UG/L : 17
P01045 IRON, TOTAL	UG/L : 470.
P01051 LEAD, TOTAL	UG/L : 50K
P01055 MANGANESE, TOTAL	UG/L : 160.
P01067 NICKEL, TOTAL	UG/L : 50K
P01147 SELENIUM, TOTAL	UG/L : 1K
P01077 SILVER, TOTAL	UG/L : 10K
P01092 ZINC, TOTAL	UG/L : 10K
P01012 BERYLLIUM, TOTAL	UG/L : 5K

RECEIVED

SEP 11 1985

SEP 11 1985

SEP 11 1985

SAMPLE COLLECTED BY <u>C. Kallis</u>		LOCATION OF SAMPLING POINT <u>Formerly Jones - McKnight dillhorns Birmingham + Bolt - oil se</u>	
BASIN <u>Kanikakee</u>	SUB-BASIN (IF NONE ENTER "DIRECT") <u>Solders ck</u>	TRIBUTARY <u>04500 HR</u>	MINOR TRIBUTARY
SEND ORIGINAL OF RESULTS TO: <u>maywood</u>		PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD	
SEND COPY OF EOP SERVICES RESULTS TO: <input type="checkbox"/> SECTION, SPRINGFIELD			
CARD COL. 1 <u>FI</u>	CARD NO. 1	CARD COL. 2 <u>02</u>	CARD NO. 2
2-5 <u>FI</u>	BASIN CODE	8-7 <u>02</u>	PLANT OR STATION NO.
11-17 <u>C004300</u>	LAB ID NO.	11-17 <u>C004300</u>	LAB ID NO.
18 <u>E</u>	SAMPLE TYPE CODE (SEE LIST BELOW)	18 <u>E</u>	SAMPLE TYPE CODE
19-20 <u>82</u>	YEAR	19-20 <u>0002</u>	PLANKTON (NO./ML)
21-22 <u>04</u>	MONTH	21-22 <u>00</u>	FLUORIDE
23-24 <u>01</u>	DAY	23-24 <u>04</u>	CHLORIDE
25-26 <u>11</u>	HOUR (NEAREST)	25-26 <u>00</u>	SULFATE AS SO <sub>4</sub>
27 <u>A</u>	TIME OF DAY (A.M./P.M.)	27-28 <u>00</u>	TOTAL SULFUR AS S
28-30	WATER TEMPERATURE (DEG. F.)	28-30 <u>00</u>	OIL
31-33	FIELD D.O.	31-33 <u>00</u>	M.B.A.S.
34-36 <u>8.5</u>	PH (UNITS)	34-36 <u>00</u>	CARBON CHLOROFORM EXTRACT
37-40 <u>2</u>	TOTAL PHOSPHORUS	37-40 <u>00</u>	TURBIDITY (UNITS)
41-44 <u>2</u>	AVG. BOD.	41-44 <u>00</u>	RESIDUE ON EVAPORATION
45-46	C.O.D.	45-46 <u>00</u>	VOLATILE SUSP. SOLIDS
47-48	PHENOLS	47-48 <u>00</u>	COLOR (UNITS)
49-52 <u>056</u>	AMMONIA N	49-52 <u>00</u>	HARDNESS
53-56 <u>056</u>	NITRATE + NITRITE AS N	53-56 <u>00</u>	ALKALINITY
57-60	ORGANIC N	57-60 <u>00</u>	TOTAL ACIDITY
61-63	TOTAL N	61-63 <u>00</u>	FREE ACIDITY
64-66	T.D.S./E.C.	64-66 <u>00</u>	OTHER TESTS REQUIRED
67-70 <u>16</u>	TOTAL SUSP. SOLIDS	67-70 <u>00</u>	RESULT
SIGN BELOW FOR EFFLUENT SAMPLE		FOR LABORATORY USE ONLY	
TRANSPORTED BY <u>C. Kallis</u>		SAMPLE RECEIVED BY <u>M. J. ...</u>	
RECEIVED BY _____ TIME _____		DATE REC'D <u>4-2-82</u> TIME REC'D <u>11:45</u>	
TRANSPORTED BY _____		DATE ANALYSES COMPLETED _____	
RECEIVED BY _____ TIME _____		DATE RESULTS FORWARDED <u>MAY 4 1982</u>	
TRANSPORTED BY _____		TOTAL TESTS REQUESTED _____	
RECEIVED BY _____ TIME _____		LAB SECTION <u>Chem</u> SUPERVISOR <u>Dauster</u>	

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.

PHYSICAL OBSERVATIONS &amp; COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL SLUDGE, TURBIDITY, WEATHER), LOCATION OF SAMPLING POINT:

From overflow pipe

A = DOMESTIC WASTE ONLY  
 I = INDUSTRIAL WASTE ONLY  
 M = MIXED DOMESTIC & INDUSTRIAL WASTE  
 S = STREAM, LAKE, OR RECEIVING WATER QUALITY  
 T = MINE DRAINAGE OR WASTE  
 X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY C. Kallis

RECEIVED BY \_\_\_\_\_ TIME \_\_\_\_\_

TRANSPORTED BY \_\_\_\_\_

RECEIVED BY \_\_\_\_\_ TIME \_\_\_\_\_

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY M. J. ...DATE REC'D 4-2-82 TIME REC'D 11:45

DATE ANALYSES COMPLETED \_\_\_\_\_

DATE RESULTS FORWARDED MAY 4 1982

TOTAL TESTS REQUESTED \_\_\_\_\_

LAB SECTION Chem SUPERVISOR Dauster

SAMPLE COLLECTED BY C Kallis LOCATION OF SAMPLING POINT Formerly Jones + McKnight  
Illinois Birmingham + Bolt - Lago  
 BASIN Kankakee SUB-BASIN (IF NONE ENTER "DIRECT") Solders CR TRIBUTARY 04301 APR 24 MINOR TRIBUTARY U  
 SEND ORIGINAL OF RESULTS TO: Maywood SUB-BASIN OFFICE ☐ PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD SEND COPY OF EDP SERVICES RESULTS TO: ☐ SECTION, SPRINGFIELD

CARD COL. 1 CARD NO. 1 CARD COL. 2 CARD NO. 2 CARD COL. 3 CARD NO. 3  
 2-5 FI BASIN CODE 6-7 01 PLANT OR STATION NO. 8-10 091 FIPS COUNTY CODE (USE ONLY FOR PLANT)  
 11-17 C004301 LAB ID NO. 11-17 C004301 LAB ID NO. 11-17 C004301 LAB ID NO.

18 E SAMPLE TYPE CODE (SEE LIST BELOW) 18 --- SAMPLE TYPE CODE 18 --- SAMPLE TYPE CODE

19-20 82 YEAR 21-22 04 MONTH 23-24 01 DAY 25-26 11 HOUR INCREASING 27 A TIME OF DAY (A.M./P.M.) 28-30 --- WATER TEMPERATURE (DEG. F.) 31-33 --- FIELD D.O.

PH (UNITS) 8.2 34-36  
 TOTAL PHOSPHORUS --- 37-40  
 AVG. SOD 63 41-44  
 C.O.D. --- 45-48  
 PHENOLS 0.012 49-52  
 AMMONIA N --- 53-59  
 NITRATE + NITRITE AS N --- 60-63  
 ORGANIC N --- 64-66  
 TOTAL N --- 67-69  
 T.O.S./E.C. --- 70-72  
 TOTAL SUSP. SOLIDS 790 73-76  
 77-80

ARSENIC 0.004 19-23  
 BARIUM --- 24-28  
 BORON --- 29-32  
 CADMIUM --- 33-36  
 CHROMIUM (HEX) 0.00 37-40  
 CHROMIUM (TRI) 0.00 41-44  
 CHROMIUM (TOTAL) 0.00 45-48  
 COPPER 0.12 49-52  
 CYANIDE --- 53-59  
 IRON (TOTAL) 1.7 60-63  
 IRON (DISSOLVED) --- 64-66  
 LEAD 0.00 67-69  
 MANGANESE 0.12 70-72  
 MERCURY (MICROGM/L) --- 73-76  
 NICKEL 0.00 77-80  
 SELENIUM 0.00  
 SILVER 0.00  
 ZINC 0.2

PLANKTON (NO./ML) --- 19-23  
 FLUORIDE --- 24-28  
 CHLORIDE --- 29-32  
 SULFATE AS SO<sub>4</sub> --- 33-36  
 TOTAL SULFUR AS S --- 37-40  
 OIL 48% 33-36  
 M.B.A.S. --- 41-44  
 CARBON CHLOROFORM EXTRACT --- 45-48  
 TURBIDITY (UNITS) --- 49-52  
 RESIDUE ON EVAPORATION --- 53-59  
 VOLATILE SUSP. SOLIDS --- 60-63  
 COLOR (UNITS) --- 64-66  
 HARDNESS --- 67-69  
 ALKALINITY --- 70-72  
 TOTAL ACIDITY --- 73-76  
 FREE ACIDITY --- 77-80

OTHER TESTS REQUIRED RESULTS

SAMPLE TYPE CODES:  
 A = DOMESTIC WASTE ONLY  
 E = INDUSTRIAL WASTE ONLY  
 I = MIXED DOMESTIC & INDUSTRIAL WASTE  
 S = STREAM, LAKE, OR RECEIVING WATER QUALITY  
 T = MINE DRAINAGE OR WASTE  
 X = OTHER OR TYPE UNKNOWN

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.  
 PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER), LOCATION OF SAMPLING POINT:  
From 02 + Fall after oil separator

SIGN BELOW FOR EFFLUENT SAMPLE  
 TRANSPORTED BY C Kallis  
 RECEIVED BY --- TIME ---  
 TRANSPORTED BY ---  
 RECEIVED BY --- TIME ---

FOR LABORATORY USE ONLY  
 SAMPLE RECEIVED BY M. T. ...  
 DATE REC'D 4.2.82 TIME REC'D 11.45  
 DATE ANALYSES COMPLETED ---  
 DATE RESULTS FORWARDED MAY 4 1982  
 TOTAL TESTS REQUESTED --- TESTS RUN ---  
 LAB SECTION Chicago SUPERVISOR Daugherty

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SPECIAL ANALYSIS FORM

04302 APR 2

Time Collected 11:30

Sub-Basin maywood

Date Collected 01-04-82

Collector C. Kallis

Facility Name: \_\_\_\_\_ Facility Number: \_\_\_\_\_

File Town Bourbonnais

Stream Name(s) Illinois Birmingham + Bolt

Stream Code: FI

Swider CIC

Source of Sample: (Exact Location)

Five yards downstream of Illinois Birmingham + Bolt Lagoon discharge

Physical Observations, Remarks:

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
<u>Arsenic</u>	<u>Coliform/100ml</u>	<u>BOD</u>	
<u>Barium</u>	<u>Fecal Coliform</u>	<u>COD</u>	
<u>Boron</u>	<u>100 ml</u>	<u>TS/EC</u>	
<u>Cadmium</u>	<u>Fecal Strep</u>	<u>Susp. Solids</u>	
<u>Copper</u>	<u>100 ml</u>	<u>Vol. Susp. Solids</u>	
<u>Chromium (tri)</u>	<u>Algae (Total) /ml</u>	<u>pH (units)</u>	
<u>Chromium (hex)</u>	<u>Ammonia (N)</u>	<u>Turbidity (JTU)</u>	
<u>Iron (Total)</u>	<u>Organic Nitrogen (N)</u>	<u>Hardness</u>	
<u>Iron (Dissolved)</u>	<u>Nitrate + Nitrite(N)</u>	<u>Alkalinity</u>	
<u>Lead</u>	<u>Phosphorus (P)</u>	<u>Total Acidity</u>	
<u>Manganese</u>	<u>Chloride</u>	<u>Free Acidity</u>	
<u>Mercury (ppb)</u>	<u>Fluoride</u>	<u>Other (Specify)</u>	
<u>Nickel</u>	<u>Sulfate</u>		
<u>Selenium</u>	<u>Cyanide</u>		
<u>Silver</u>	<u>MBAS</u>		
<u>Zinc</u>	<u>Phenol (ppb)</u>		

RECEIVED  
APR 14 1982

3339 Oil

Results in mg/l unless otherwise noted.

Transported by: <u>C. Kallis</u>
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY	
Lab Number: <u>0004302</u>	Rec'd by: <u>A. J. Trull</u>
Date sample rec'd: <u>4-2-82</u>	Time: <u>11:45</u>
Date analysis completed: _____	
Date results forwarded: <u>APR 12 1982</u>	
Total Tests requested: _____	Tests run: _____
Lab Section: <u>Chemistry</u>	Supervisor: <u>[Signature]</u>